



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
GFL207
Machine Id
401227
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0124672	GFL0110698	GFL0102734
Sample Date		Client Info		14 Jun 2024	18 Apr 2024	07 Feb 2024
Machine Age	hrs	Client Info		30958	30504	29930
Oil Age	hrs	Client Info		600	0	0
Filter Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	4	6	8
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	1	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

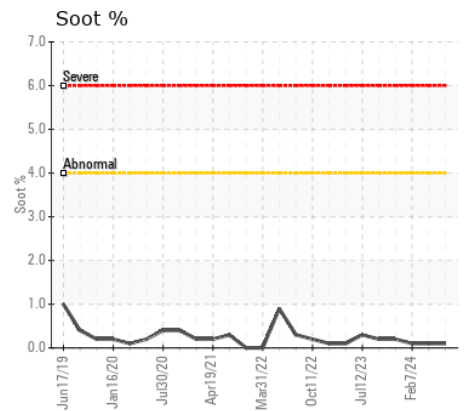
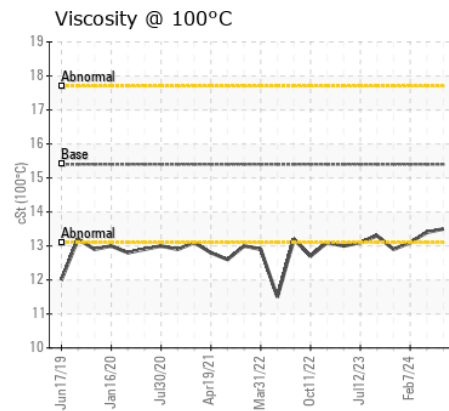
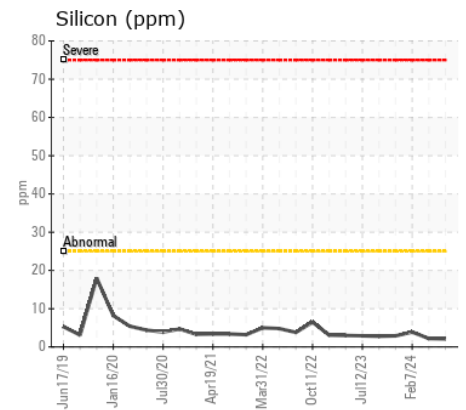
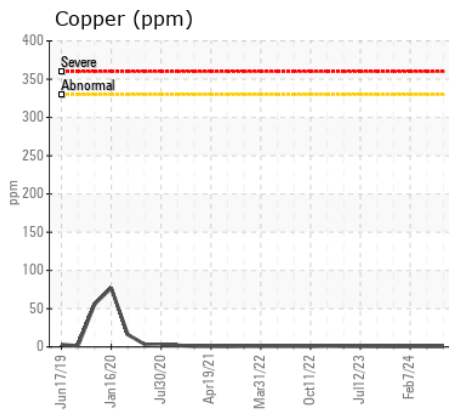
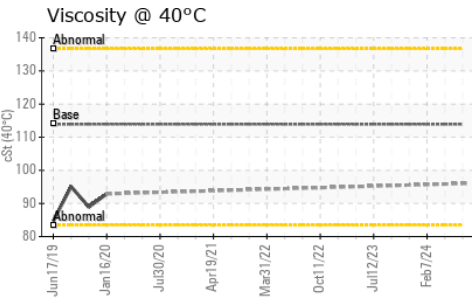
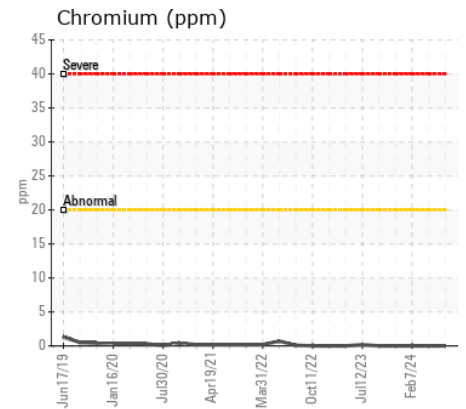
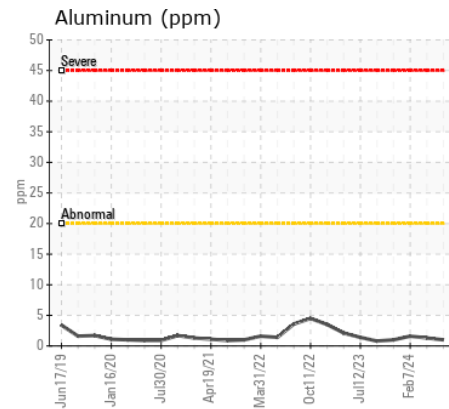
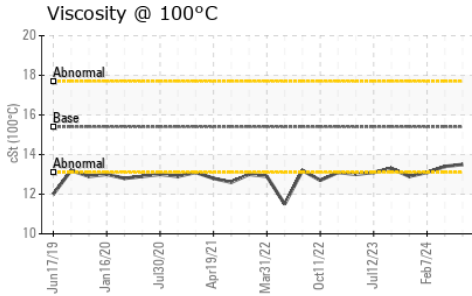
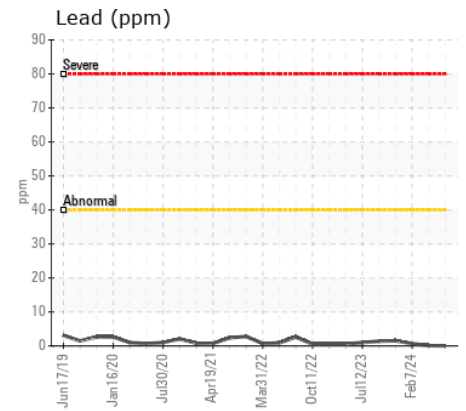
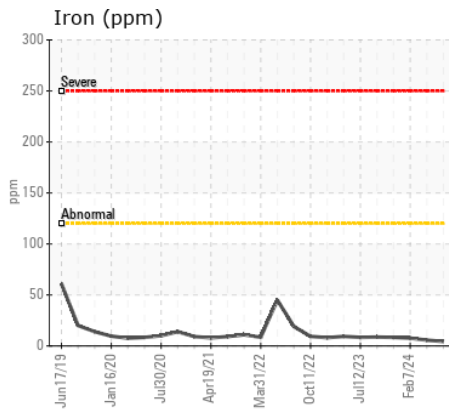
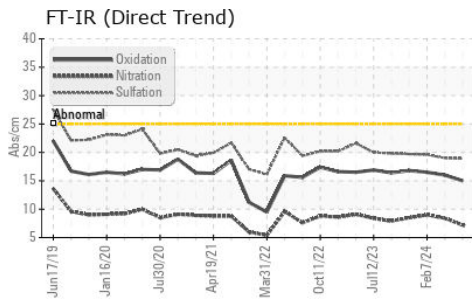
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.1	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	7.2	8.4	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	19.0	19.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	3	3
Boron	ppm	ASTM D5185(m)	0	1	2	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	56	56	57
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	929	944	943
Calcium	ppm	ASTM D5185(m)	1070	981	1005	1051
Phosphorus	ppm	ASTM D5185(m)	1150	951	956	996
Zinc	ppm	ASTM D5185(m)	1270	1156	1141	1164
Sulfur	ppm	ASTM D5185(m)	2060	2484	2409	2658
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.0	16.0	16.5
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	96.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.5	13.4	13.1
Viscosity Index (VI)	Scale	ASTM D2270*	142	141	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0124672
Lab Number : 02644097
Unique Number : 5801636
Test Package : MOB 1 (Additional Tests: KV40, VI)

GFL Environmental - 227 - Pickering MTCE
 1034 Toy Ave
 Pickering, ON
 CA L1W 3P1
 Contact: Maintenance

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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F: